## Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

- (Currently Amended) A method for detecting multidrug resistance or multidrug resistance potential [[in]] of a test neoplastic cell, comprising:
  - a) measuring a level of cell surface-expressed vimentin protein [[in]] on the test neoplastic cell of a given origin or cell type, and
  - b) comparing the level of cell surface-expressed vimentin protein [[in]] on the test neoplastic cell to the level of cell surface-expressed vimentin [[in]] on a nonresistant neoplastic cell of the same origin or cell type,

wherein the test neoplastic cell is multidrug resistant or has multidrug resistance potential if the level of cell surface-expressed vimentin [[in]] on the test neoplastic cell is greater than the level of cell surface-expressed vimentin [[in]] on the nonresistant neoplastic cell of the same given origin or cell type.

- (Currently Amended) The method of claim 1, wherein measuring the level of cell surface-expressed vimentin [[in]] on the test neoplastic cell comprises isolating a cytoplasmic membrane fraction from the cell and measuring the level of vimentin in the cytoplasmic membrane fraction.
- (Currently Amended) The method of claim 1, wherein measuring the level of cell surface-expressed vimentin [[in]] on the test neoplastic cell comprises contacting said cell with an anti-vimentin antibody and measuring the level of antibody bound to cell surface vimentin.
- (Previously presented) The method of claim 3, wherein measuring the level of antibody bound to cell surface vimentin is by immunofluorescence emission.
- (Previously presented) The method of claim 3, wherein measuring the level of antibody bound to cell surface vimentin is by radiolabel.

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 (Previously presented) The method of claim 1, wherein the test neoplastic cell is selected from the group consisting of a promyleocytic leukemia cell, a T lymphoblastoid cell, a breast epithelial cell, and an ovarian cell.

- (Previously presented) The method of claim 1, wherein the nonresistant neoplastic cell
  is from a drug-sensitive cell line selected from the group consisting of HL60, NB4, CEM, HSB2
  Molt4, MCF-7, MDA, SKOV-3, and 2008.
- 8. (Previously presented) The method of claim 1, wherein the test neoplastic cell is selected from the group consisting of a lymphoma cell, a melanoma cell, a sarcoma cell, a leukemia cell, a retinoblastoma cell, a hepatoma cell, a myeloma cell, a glioma cell, a mesothelioma cell, and a carcinoma cell.
- (Previously presented) The method of claim 1, wherein the test neoplastic cell is from a
  tissue selected from the group consisting of blood, bone marrow, spleen, lymph node, liver,
  thymus, kidney, brain, skin, gastrointestinal tract, eye, breast, prostate, and ovary.
- 10.-58. Canceled.
- (Currently Amended) A method for detecting whether a test cell is neoplastic, comprising
  - a) measuring a level of cell surface-expressed vimentin protein [[in]] <u>on</u> the test cell of a given origin or cell type, and
  - b) comparing the level of cell surface-expressed vimentin protein [[in]] on the test cell to
    the level of cell surface-expressed vimentin in a nonneoplastic cell of the same origin
    or cell type,

wherein the test cell is neoplastic if the level of cell surface-expressed vimentin [[in]] on the test cell is greater than the level of cell surface-expressed vimentin [[in]] on the nonneoplastic cell of the same origin or cell type.

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60. (Currently Amended) The method of claim 59, wherein measuring the level of cell surface-expressed vimentin [[in]] on the test cell comprises isolating a cytoplasmic membrane fraction from the cell and measuring the level of vimentin in the cytoplasmic membrane fraction.

61. (Currently Amended) The method of claim 59, wherein measuring the level of cell surface-expressed vimentin [[in]] on the test cell comprises contacting said cell with an anti-vimentin antibody and measuring the level of antibody bound to cell surface vimentin.

 (Previously presented) The method of claim 61, wherein measuring the level of antibody bound to cell surface vimentin is by immunofluorescence emission.

 (Previously presented) The method of claim 61, wherein measuring the level of antibody bound to cell surface vimentin is by radiolabel.

64. (Previously presented) The method of claim 59, wherein the test cell is from a tissue selected from the group consisting of blood, bone marrow, spleen, lymph node, liver, thymus, kidney, brain, skin, gastrointestinal tract, eye, breast, prostate, and ovary.

65. (Previously presented) The method of claim 59, wherein the nonneoplastic cell is from a tissue selected from the group consisting of blood, bone marrow, spleen, lymph node, liver, thymus, kidney, brain, skin, gastrointestinal tract, eye, breast, prostate, and ovary.

66 -108 Canceled.